BBS Express!^M Professional



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Features

- * 32 Message Bases
- * 32 File SIG Areas w/ file descriptions
- * 32 Command Sec Levels
- *256 User Security Flags
- *516,128 Files Online For Download
- * Full Online User Editor
- * Event Scheduler run up to 30 events automatically
- * ExpressNET networking
- * Print Userlog to Printer or Disk File
- for downloading and printing on another system.
- * Online Dos Shell to access DOS functions online

System Requirements

- · Atari 200XL or 130XE
- · Hard Drive recommended
- · SpartaDOS 3.2
- · Rtime-8 Optional
- MIO, 850, PRC interface w/ RS232 Hayes Compatible modem

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BBS Express! Professional

User Manual

BBS Express! Professional

By Kelth Ledbeller and Chris King

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Introduction

Weicome to BBS Express! Professional. We think you will find this BBS to be the most powerful ever written for the Ateri 8-bit line of computers.

We know you are enxious to get the board up and running, but please take the time to read through the menual completely before attempting to configure the board. An overall understanding of how the board is set up and how it runs will help you when it comes time to decide where to put things on your drives.

Throughout this menuel, we will refer to SperteOOS's command structure with the understending that you are femilier with how to use SperteOOS. We won't attempt to teach you how to use SparteDOS within the context of this menuel. Assuming you have a working knowledge of the DOS, you should have no trouble satting up and running the BBS. If you are a novice SperteOOS user, keep your SperteOOS menuel handy for quick reference.

We will be meinteining en 'Official' Pro Support board for the exclusive use of registered owners. The phone number is 804-744-8897. You may call in Atascii or Ascii et 300, 1200 or 2400 beud. After registering on the board, you will be disconnected. You may call back the next day and will have been validated by then. This support board will have pieced on it any upgrades to the various modules as well as new modules as they are written.

Thenks egein for purchesing BBS Express! Professional. Orop us a line if you would like to see something edded to the board that would be of benefit to the majority of sysops running the system. We will be adding commends and upgrading the program from time to time, so check in with the support board periodically for the letest news on improvements.

System Requirements

BBS Express! PRO's power is made possible by talloring the program to a specific CPU group and a specific ODS. You wast use Sparta00S 3.2 in order to run BBS Express! PRO. We cannot say at this writing if the yet-to-be-released Sparta0os X cartridge can be used with PRO. Assuming the cartridge is totally compatible with 3.2, it will work. By the vary nature of Sparta0OS, you are limited to using an Atarl BOOXL or 130XE. PRO will not run on an 800 due to the fact that Sparta0OS won't run on it. Any mamory upgrade available for the BOOXL or 130XE should work with PRO as long as you install your ramdisk handler before running the BBS program.

If you own the Rtima8 clock cartridgs, PRO will take full advantage of it. If you don't own one, you will need to set the Sparta005 software clock before running PRO. In either case, the TDLINE.COM file should be run prior to running the board.

We recommend using a hard drive to run PRO, but it lsn't absolutely necessary. PRO's commends are loaded into memory as required, so the slower your storage davice, the longer it will take to load in these commends. The best solution, even when running with a hard drive, is to keep the BBS's commend subdirectory on the ramdisk. This will afford the best response time to the user.

BBS Express! PRO's shall loads into mamory at \$3000. This is the portion of the BBS that always ramains in memory and has control most of the time. You must load the RS232.COM and TDLINE.COM from the SpartaBOS disk, along with the BBBPREP.CMD file from your Pro disk, before PRO will run. These can be included in your STARTUP.BAT file. Optimally, you should have room to load your favorite accessories (such as a ramdisk handler) as long as MEMLO goes no higher than \$3000. The BBSPREP.CMD file must be the **Last* file that alters MEMLO to be loaded.

Any Hayes compatible modem can be used with BBS Express! PRO. How Hayes compatible? Well... the modem must be able to answer the phone with an ATA command and must be able to hang up the phone when the DTR line drops low. Not too much to ask a BBS modem to do. If you have a modem that uses the extended command set, PRO will auto-detect the callers baud rate by datacting the CONNECT, CONNECT 1200 and CONNECT 2400 massages returned by modem.

What's On The Disks

BBS Express! PRD is shipped to you on 2 single density disks.

Disk 1 contains:

Front Side

- the BBS shell module. BBS.COM

- prepares system to run BBS. BBSPREP.CDM

- the syseditor. SYSEDIT.CDM

MAKEULDG.CDM - userlog creation program.

MAKEMSGB.COM - message base creation progrem. - extends the size of the userlog UEXTEND.COM - create subdirectory batch file. MAKESUB.BAT

Data> Back Side

- Data files for support programs. - All the atascii and ascii help

He1p40> files for 40 column users.

- All the atascii and ascii help HelpBO>

files for BO column users.

Front & Back

Disk 2 contains: - All the system command modules that are required for PRD to run. These should be placed in the PRO>COMMANDS> subdirectory on your hard drive and ramdisk.

Command Modules

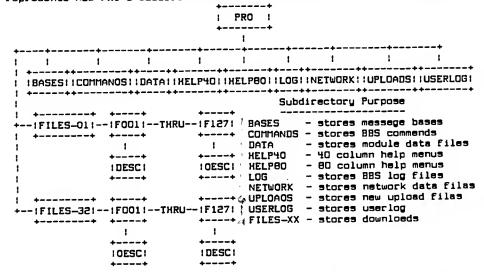
ATASCII	CMD	BRDWSE	CMD	CALLSYS	CWD
		- DOSSHELL	CMD	*EDITFILE	CMD
• <u>n</u>			CMD	FINDFILE	CMD
- FEEDBACK					CMD
GODDBYE	CMD	LDGIN	CMO	LDGOFF	
LDGDN	CMD	LOGDUT	CMD	MAIN	CWD
		NETCALL	CMD	*NETEDIT	CMO
- MSGBASE	CMO			- NEWFILES	CMD
NETPREP	CMO	NETUPOT			
PARMEDIT	CMD	READMAIL	CMD	- SCANMARK	CHD
GENOMA II	CMD	*UEDITOR	CMD	*ULBACKUP	CMO
			CHD	USEARCH	CMD
*ULPRINT	CMO	*ULPURGE			CMD
USHELL	CMD	*UDEL	CMD	+UIEWEUNT	
WAITCALL	CMD	*WHERE IS	CMO	WHOCALL	CWD
		•XMDDEM	CMD		
TAIAMOHW	CMO	- XIIODEII	2110		

NOTE: Commands with an '\$' beside them are intended to be 'Sysop Commands' to either be run from the Oos Shell or the Event Scheduler.

The following topics are organized in such a manner that each step is performed before proceeding to the next.

The System Directories

BBS Express! PRO uses subdirectories extensively. The entire board and all its files reside under one subdirectory in the main directory. To illustrate this, look at the diagram below. This pictorially rapresents how PRO's subdirectories are structured.



Ae you can see, each of these subdirectories reside under the subdirectory called PRO in the main directory. While each of thase subdirectories may physically reside on the same drive, thay don't have to. You can put the COMMANDS directory on drive 8 and the UPLOAD directory on drive 2 and the FILES-XX subdirectories on drives 4, 5 and 6. The key to doing this is that each drive that you will be using with the BBS has a subdirectory called PRO defined in the main directory of that drive and the BBS subdirectories reside in this PRO subdirectory.

To make the tesk of creeting these subdirectories aesier, we have provided a batch file on the master disk celled MAKESUB.BAT which will create ell the necessary subdirectories for you. You must edit this betch file with a text editor and change the drive numbers to the driva where you want the various subdirectories located. This batch file will also make the first three subdirectories required for the first three download file areas. You may adjust this to your own requirements prior to running the betch file, depending on how many download file areas you are setting up for your system.

Aftar you have created all the directories, it is recommended that you copy the files contained on the mestar disks to the appropriate subdirectories you just creeted. The mester disks contain all tha files within the subdirectories where they should raside, so a wildcard subdirectory copy is acceptable. Make yourself a list of where you decided to place the subdirectories. This will aid you in the next step of creating the SYSOATA.DAT file.

Creating The Sysdata.Dat File

The SYSDATA file contains all the system parameters that PRO needs to know where to find things. This file is created and maintained using the Syseditor program which is discussed in detail below.

Sysdata Editor

The Sysedit.Com utility is a stand eione program which is used to create and later edit the Sysdata.dat file. This file contains all the system date parameters which BBS Express! Professional uses to determine where required system files are located and how to configure the system setup. Using the program is pretty intuitive, but a detailed explanation of the verious options is provided below.

Sysedit.Com is loaded from the SparteDOS command prompt by typing SYSEDIT and pressing return. Make sure that <u>BASIC is disabled</u>. When the program finishes loading, you will be prompted to enter a drive number for the SYSDATA.DAT file. If SYSEDIT can not find the sysdate file on that drive, you will be prompted with 'Create A New Sysdate ?'. Respond yes or No. No will exit back to the DOS prompt and Yes will initialize a new sysdate file for editting. When you exit the Syseditor (Option 9 from Main Manu), you will be prompted for a filename to save the configuration or hit return to save under the displayed input filename. The SYSDATA.DAT file should always be saved in the PRO subdirectory on the drive that you pien to boot the board from using the name SYSDATA.DAT.

After specifying the drive number for the Sysdate.dat file, the Main Menu will appear and ellow the following options:

Main Menu

- [1] System Parameters
- [2] Drive Perameters
- [3] Main Commands
- [4] File Sig Parameters
- [S] System Baud Rates
- [6] Misc. Parameters
- [7] ExpressNET Parameters
- [8] Event Scheduler
- (9) Exit Sysdeta Editor

Each of these options is discussed below. An asterisk will appear to the left of the menu number if you have entered that option during this editing session. While in any option 1-8, you may return to the Main Menu by pressing the Escape Key.

[A] System Parameters: [A] Systam Hi Messega... 99999 [B] Total Systam Cells... 99999 [C] Cells Todey...... 99999 [D] Faedback Mode.... xxxxxx [E] Allow Handles... xxx [F] Interface Type... xxx [G] Use File Sig Desc... xxx

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

- [A] System Hi Message This is the Hi message counter. If you are just starting out with PRO, this field should be set to 1. The board increments this number for each message or E-mail posted on the system. Press return after entering a new value.
- [B] Total Calls Total system cells to date thet your BBS has recaived. If just starting a BBS, this number should be left zero. Otherwisa, spacify your current system calls in this fiald. Press return after entaring a new value.
- [C] Calls Today Total calls your system has received today.
 Prass return after entering a new value.
- [D] Feedback Mode Specifies whether the system will direct sysop faedback to Email or is turned off. This field is toggled by hitting the option letter.
- [E] Allow Handles This field toggles between YES end NO. It is used to specify whether you want to ellow the use of handles on your system.
- [F] Interface Type This field toggles between MIO, PRC and 850. Set to the interface type that you are using.
- [G] Use File Sig Desc This field toggles between YES end NO.

 Specifies whether you want to use descriptions with download files or not.
- [H] Secondary Password Specifies the current sysop level password. This field may be up to 15 cheracters. Any user with sysop access will be required to enter this password when accessing the system ramotely. When finished aditing this field, press raturn.
- [I] Board Name for Status Line Specifies a string of up to 36 characters for board name which will display in the top status line while the board is running. This field is automatically cantered when editing is terminated with a return.
- [J] Sysop Name for Status Line Spacifias a string of up to 36 characters for sysop name which will display in the top status line while the board is running. This field is automatically cantered when additing is terminated with a return.

[2] Drive Parameters:

[A]	UserLog Drive Dx:
CBJ	Halp4D Drive Dx:
[63	Help80 Drive Dx:
כמס	Command Drive Dx:
CEO	System Log Drive Dx:
CF3	System Data Drive Dx:
CB3	Upload Drive Dx:
CHO	Mag Bases Drivas
	1+2+3-E
000000	000000000000000000000000000000000000000
	File Sig Drives
	12+3
000000	000000000000000000000000000000000000000

- [A] thru [G] These options are used to spacify the drive number where each of the required system directories may be found. To change drive numbers, press the letter which you wish to change until the drive number you want appears on the screen.
 - NOTE: Option E allows the drive to be set to O. If the Log Orive is set to D, this will turn OFF the logging of callers to the call log.
- [H] Message Base Drives Specifies the drive number where each massage base may be found. Enter a drive number (1 - 8) for each active message base. If a message base does not exist or is currently inactive, specify a D drive number.
- [I] File Sig Drives Specifies the drive number where each fila SIG may be be found. Enter a drive number (1 8) for each active file SIG. If a file SIG does not exist or is currently inactive, specify a D drive number.

[3] Main Commands:	Num	Key	Lvl	Typ	.CMD
COS TIGATE GRANDE	#01	×	0	×	xxxxxxx
	*02	×	0	×	xxxxxxx
	#03	×	0	×	xxxxxxx
	#04	×	0	×	xxxxxxx
	#05	×	0	×	xxxxxxx
	#05	×	0	×	xxxxxxx
	#07	×	0	×	xxxxxxx
	#08	×	0	×	xxxxxxx
	#09	×	0	×	xxxxxxx
	#10	×	0	×	xxxxxxx
	#11	×	0	×	xxxxxxx
	#12	×	0	×	xxxxxxx

The Main Command screen displeys up to 35 main command definitions in e scolling mannar. Use the Up/Down arrows to move up and down the commands. When the bottom command is reached and the down arrow is hit agein, the next page of commands will appear. Likewise, whan the hilight ber reaches the top command, the previous page will appear, except if you are at the top of page 1. Position the hi-light ber at the command you wish to edit and prass return. You may now change the information which pertains to that command. Each command entry consists of four pieces of information.

- Key Spacifies the Key definition. This defines the key as a valid entry from the main command prompt. A dash specifies unused command entries. Any character may be used except dash to spacify a valid key. If a dash is kayed, the command is reset to an invalid command.
- Lv1 A value between 0 and 32 to specify the security level required to access this key function. Note: 32 is sympo level. This field corresponds to the user's "Command Security Level" settings. Example: If you set a command to level 3, the user's commend level 3 flag would have to be turned on for them to be able to execute the function.
- Typ Specifies the type of file that is contained in the .CMD field. Hitting return on this field will default to type C.
 - C denotes that this is a command (executable .cmd file). I - denotes that this is a text or menu file to be displayed.
- .CMD Specifies the filename (no extender) which will be viewed or executed if the key is pressed by the user. If only return is pressed on this field, the commend edit is aborted and the original commend will reeppear unchanged.

[4] File Sig Parameters:	Num	File Sig Name
	#01	xxxxxxxxxxxxxxxx
	*02	*****
	#03	*****
	#0 4	*****
	#05	******
	#06	*****
•	#07	*****
	#08	xxxxxxxxxxxxxxxx
	#09	*****
	#iO	****
	#11	****
	#12	*****

The Fiie Sig screen displays up to 32 file sig definitions in a scrolling manner. Use the Up/Down arrows to move up and down the file sigs. When the bottom file sig is reached and down arrow is hit again, the next page of file sigs will appear. Likewise, when the hi-light bar reaches the top file sig, the previous page will appear, except when on page i. To edit any file sig entry, position the hi-light bar at the file sig you wish to edit and press return. You may now change the file sig name. Pressing return without keying any change will leeve the original sig name intact end unchanged. After editing the file sig name, press return to terminate editing. Each file sig name may have up to 20 characters. Editing automatically ends if you enter your 20th character, so a return would not be necessary in that case.

[5] System Baud Rates: [A] MAX Baud Rate..... xxxx [B] MIN Baud Rate..... xxxx [C] Starting Baud Rete... xxxx

- (A) Max Baud Rate Toggies the maximum baud rate. Baud wiii toggle up to the next baud rate each time the key is pressed. Set the maximum beud rate your modem supports. (3/12/24/96)
- (B) Min Baud Rate Toggles the minimum baud rate. Baud wiii toggle up to the next baud rate each time the key is pressed. Set the minimum baud rate you wish to support. (3/12/24/96)
- EC3 Starting Baud Rate Toggles the starting baud rate. Baud will toggie up to the next baud rate each time the key is pressed. Set to the baud rate you want the phone answered. You can not specify e starting baud rate less then minimum or greater than maximum. Sterting Baud rate will automatically be set to maximum beud rate if maximum is 2400 or greater. This is usually e modem requirement that the port speed be set to the highest baud speed for the modem to enswer the phone, so we set this for you if maximum is above 1200. You can not override this feature.

[6] Misc. Parameters:

- [A] Caller Type..... xxxxxxxxxxxxx
- [B] Displey Columns.. xx
- [C] Change Foreground Color
- [D] Change Background To Next Color
- [E] Change Beckground To Next Hue
- [F] Change Border To Next Color
- [6] Change Border To Next Hue
- [H] Set Border To Beckground Color
- [I] Reset To Defeult Color Set
- Caller Type Toggles between Atescil Only and Ascil/Atascil. [A] This ellows you to set the celler type the board will accept et logon.
- [B] Display Columns Toggles between 40 and 80 columns. (Tech Note: Future enhancement, Version 1.0 currently does not use this field.)
- [C] Change Foreground Color

- [F] Change Border To Next Color
- [G] Change Border To Next Hue
- [H] Set border To Background Color
- [I] Reset To Default Color Set
- Options 'C' thru 'I' function [D] Change Background To Next Color es Indicated. Press the [E] Change Background To Next Hue appropriate option letter to perform the desired function. The color combination that you set on your screen will be the colors displayed while the board is running.

[7] ExpressNET Parameters: [A] Node Number..... xxxxx

[B] Node Neme:

[C] Node Clty/State:

XXXXXXXXXXXXXXXXXXXXXXXX

[D] Network Drive..... Dx:

- [A] Node Number Your BBS node number If you ere using the ExpressNET Interfece feeture. Your node number is the seriel number found on your mester BBS Express! PRO diskette. This is the number by which other ExpressNET systems will know uou.
- Node Name Your BBS name as you want it to appear in network messages sent to other ExpressNET systems.
- Node City/State Your BBS City end State as you want it to [[]] eppeer in network messages sent to other ExpressNET systems.
- Network Drive Specifies the drive number where the NETWORK נמו directory may be found. Pressing this letter will increment the drive number.

[8] Event Scheduler:

Event Schedule Oays Event Type S-M-T-W-T-F-S Hr Name Every Y Y Y Y Y Y Y Y Timed N N N N N N N Y O WHOMAINT 22 ULPURGE Timed N N N N N Y 23 ULBACKUP OFF NNNNNN OFF NNNNNN 0 OFF NNNNNN 0 OFF NNNNNN 0 OFF NNNNNN 0 NNNNNN OFF

The Event Scheduler screen ellows you to set up events to run autometiceity either after every call or on a timed basis. Up to 30 events cen be set up to run. The arrow keys allow you to move to the entry you wish to edit. This screen, itke previous screens, with move to the next page when the down arrow key is pressed and you are on the last entry on that page. The up arrow key with move you to the previous page when you are on the top entry. Once you are positioned to the entry you wish to edit, pressing the return key with place you in edit mode. The time will clear and e prompt will be displayed for the appropriate entry. If option 2 is selected, the cursor will move to the event name. The 8 character name of the event should then be entered (Refer to the Event Scheduler section for a list of the supplied events on the master disk). If the filename is less than 8 characters, press return, otherwise entry terminates on the 8th character entered. The hi-light bar will re-appear to indicate the entry has been saved in memory. If you select the event as a timed event, you will be prompted for the days and the hour that this event should be run. Hitting a return during days entry will defauit to a Y entry. The hour should be entered in military time (0-23). If you wish to reset an event to OFF, position to the event entry and hit the return key twice.

Creating The UserLog

Create the useriog by running the program MAKEULOG.COM. You will first be prompted to enter the number of users you want to allow in the userlog. This can be any number up to 65535. To aid you in this decision, i user record requires i double density sector (256 Bytes).

In addition, the system will reserve the first 9 records for it's own use, so the sysop is actually user number 10 and the co-sysop is user number 11. If you do not pian to have a co-sysop, the system still reserves user number 11. The board treats these 2 user id's differently from the rest. As an exemple of this, user record 10 and it are not recorded in the "who's called log" for users to see. This way, you and a co-sysop can pop into the board without alerting users that you were there.

Next, you will be asked to enter the drive number on which to create the useriog. This can be any drive 1-8.

The program wiil now start creeting the userlog assuming that the subdirectory PRO>USERLOG> exists on the drive that you specified. If not, the program wiil exit back to the OOS prompt allowing you to create the subdirectory or rerun the program selecting a different drive number.

Creating The Message Bases

Create the message bases by running the program MAKEMSGB.COM. You will first be prompted to enter the message base number that you want to create. Hitting return will create the default message base that is displayed on the screen (this aiways starts at message base #1).

Next, you will be asked for the number of messages that you want in this base. This can be up to 250 messages.

Then, you will be asked for the drive number on which to create this base. Any drive 1-8 may be used.

Next, you will be asked to name the message base. Up to 20 characters may be keyed and may be upper, lower or atascii characters.

Then, you will be asked if you want to allow ATASCII graphics on this base. Enter a 'Y' or 'N'.

Finally, you will be asked for a size (2-9) of the message base. The chart below will aid you in selecting the eppropriate size for your needs.

Size Selected	# Of Messages	# Bytes Per Message	Totai Base Size
2 3 4 5 6 7	100 100 100 100 100 100	362 618 874 1130 1386 1642 1898	79,360 104,960 130,560 156,160 181,760 207,360 232,960 258,560
9	100	C121	230,300

The number of bytes per message in the chart above represents the number of bytes aveilable when posting e message. If your base size selected was '5', the user would be able to key up to 1130 bytes into the message.

Assuming a massage base of 250 massages and size 9, the maximum size of a massage base would be 642,560 bytes.

The progrem will now stert creating the message bese assuming the subdirectory PRO>BASES> exists on the drive you specified. If not, the program will exit back to the DOS prompt, allowing you to create the subdirectory or rerun the program, selecting a different drive number. Once the message base has been created, the bese counter increments and the process continues for the next message base.

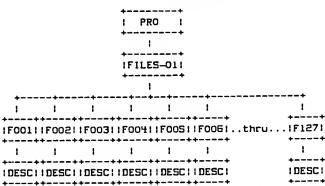
Regardless of how meny message bases you decide to have online, remember that you must elways create message base 32. This serves as the Email base. Once message base 32 is created, the MAKEM5G8 program will exit back to the Oos command prompt.

Creating The File Sigs

BBS Express! PRO supports up to 32 download file sig areas and 1 upload file sig. All uploads go to this one file sig area. They are not visible to the user until validated by the sysop. (Refer to the New Files Validation section for the procedure on validating new uploads).

Each download file sig is ectually a subdirectory named FILES-XX XX is the sig number (1 thru 32). Within the FILES-XX subdirectory up to 127 subdirectories can exist nemed F001 through F127. These subdirectories must be created in sequential numeric order. The actual download files are stored in these subdirectories. Under each of the F001 thru F127 subdirectories are subdirectories called DESC. This is where the description to the file is stored. A quick calculation shows 127 subdirectories, each containing up to 127 files, yields space for 16,129 download files per file sig area. With 32 file sig areas, 516,128 files online at one time is possible.

Let's look at one download file sig area pictorially to illustrate this:



Each of the 32 file sig areas is structured exactly like this example, except the FILES-O1 subdirectory would be named FILES-O2, FILES-O3 etc.

Now this may seem like a lot of subdirectories (and it is), but the thing to remember is only the FILES-XX, FOO1 and the DESC under FOO1 need to be created initially. The additional FOO2, FOO3, etc and DESC under each of them can be created later as you need them. If this still seems a little confusing, you might want to read the section on new files validation for an explanation of how the board will move the new uploads into these file sigs. Once the subdirectories have been properly created, it's not something you have to worry about or remember to get the new files into these areas.

A word of caution... when creating the F001, F002, F003 subdirectories, don't skip a number. The board will be tricked into thinking there are no more subdirectories in the sig area if it encounters a non-existent numeric subdirectory. You can have FILES-01, FILES-10, FILES-20 with gaps in-between but not within those subdirectories. When creating the additional subdirectories, don't forget to create the DESC subdirectory under it so the file descriptions can be saved. The user can still upload files if you forget, but would see an 'Unable to Create Description file' message when the BBS tries to save the file description.

Creating The Help Menus

The necessary help menus this board requires are on the master diskette in the HELP40 and HELP80 subdirectories. All of these files are text files, and can be edited with any text editor.

PRO has 4 sets of menus available for display. They are based on the caller's video width and translation. The help menus are broken down into 2 subdirectories called HELP40 and HELP80. Within each of these subdirectories are 2 sets of menus distinguished by the extenders .ATA for AISCII menus and .ASC for ASCII menus. When the user calls for a help file to be displayed, PRO will display the appropriate help file based on the user's current settings. This makes it easy to customize the help files for both 40 and 80 column users as well as AIASCII and ASCII users. The help files provided on the disks are generic in nature, but can be used to get you started. They are intended to be a starting point and can be customized to your liking.

The next page contains a table of variable tags available for use in menus. To aid in the conversion of existing menus, we have included the 1030/850 variable tag equivalent for those of you running the current version of BBS Express!

PRO Variable Tags Definitions Table

Tag Name	Number	1030/850 Version Equivalent
Clear The Scraen	800	
Users Hendle	801	801
Usars Rael Name	802	
Usars Password	803	802
Usars Address	408	
Usars City/State	805	408 E08
Users Zip Coda	806	
Users Country	807	
Usars Phone Number	808	805
Users Age	809	
Usars CPU Type	810	
Users Lastcall Dete	811	806
Users Time Limit Per Cal	1 812	
Usars Time Limit Per Dey	813	809
Usars Minutes On Today	814	808
Users Last Raed Massage	815	810
Users DL Retio	816	
Users Downloads	817	812
Users Uploads	818	811
Usars Massages Postad	819	
Usars Emails Sent	820	
Users Total Cells	821	814
Usars Video Width	822	
Systam Hi Messege	823	828
System Totel Calls	824	824
System Calls Today	825	835
Systam Last Caller	826	820
Current Trenslation	&27	
Currant Dete	828	819
Current Time	829	821
Usar Numbar Online	830	
Current Beud Rate	831	&36
Frae Tima This Call	832	
Minutas Connectad	833	825

Note: Tegs numbers 07,13,15,16,17 18,23,26,27,28,29,30,31,32 33,34 have no direct translation to PRO. These variable tags can be used in your help files in place of hard coded literals. Let's look at an example of a typical welcome help file and see how these variable tags are used.

This is what your help file would look like:

800

Hi &Ol...
Welcome Aboard The Midnight Express!
How Are Things In &OS?
Your Last Cell Wes On &11...
You Just Missed &25...

And this is how the user would see it at logon:

The user's screen would cleer due to the &00

Hi John Doe...
Welcome Aboerd The Midnight Express!
How Are Things In Midlothien, Ve.?
Your Lest Cell Was On Fri 18-Apr-88...
You Just Missed Keith Ledbetter...

All the veriable tegs were repleced with meaningful information based on their current values. You can use these veriable tags in help files, menus or text files englime you want this veriable information displayed to the user. An & with no digit ('0' - '3') next to it will display es a normal '&'. In other words, seying This & that in a menu file will display 'This & That', just as it should.

The mester disk conteins a complete working set of help files in 40 and 80 column formet for both ATASCII and ASCII translation. These should be copied to your PRO>HELP4O> and PRO>HELP8O> subdirectories and can be used as is.

Modifying Your StartUp.Bat File

Your Startup.Bat file should include the following SpartaDOS commands in addition to any other commands that you run during your startup.bat procedure.

TDLINE.COM RS232.COM

(not needed if using an MIO)

BBSPREP.COM (Nust be the LAST file loaded that alters LoNem)

If your ramdisk is of sufficient size, we suggest that you create the subdirectory PRO>COMMANDS> (even if you are running with a hard drive) and copy all the command modules to the subdirectory on the ramdisk. This can be performed within the Startup.Bat if you wish.

Considering that the command modules are loaded quite a bit during board operation, placing them in the ramdisk for access will speed up the response time to the caller and reduce the wear and tear on your hard drive by only having to read the commands once from the hard drive each time the system is booted.

Autobooting the BBS from the Startup.Bat file, and thereby making the board self booting can be achieved by making the BBS.COM file the last command in the batch file. Also keep in mind that running a batch file from a batch file terminates the original batch file even though you may have had more commands to execute. You can use this to your advantage by making the board setup batch file a stand alone batch file in your PRO> subdirectory. Adding one line to the end of your Startup.Bat file to run the batch file to configure and run the BBS. Should you need to hit reset to go back to DOS to perform something, you can restart the board by typing BBS. The BBSPREP.COM file takes care of reinitializing the device handler table that the reset destroys and resetting LOMEM. By doing this, once you have loaded the necessary drivers (ie Startup.Bat), you may start and reset the board as many times as you like without having to turn the computer off and reboot the system.

Configuring The Modem

The exect dip switch settings will vary from modem to modem depending on the manufacturer of your modem. As a guideline in setting up your particular modem to run with PRD, the following criteria should be used in determining the correct DIP settings.

- 1. The modem should only turn on the carrier detect pin when a remote carrier is present.
- 2. The modem should heng up end return to command mode when the DIR goes off.
- 3. The modem should return messeges back to the CPU in words.
- 4. The modem should understand its own commends.
- S. The modem should be in Asynchronous mode.
- 6. The modem should NOT be in auto-enswer mode.

Here ere some exemple Dip Switch settings for a few of the popular modems being used today.

> Hayes and SmarTeam 300/1200 Baud Modems Switch 1 - UP Switch 2 - UP Switch 3 - DDWN Switch 4 - UP Switch S - DDWN Switch 6 - UP Switch 7 - UP Switch 8 - DOWN

Avatex 300/1200 (Non HC version) All Dip Switches should be UP

Avatex 300/1200 (HC version)

Switch 2 - UP Switch 1 - UP Switch 3 - DDWN Switch 4 - UP Switch 6 - UP Switch 5 - DDWN Switch 8 - DOWN Switch 7 - DDWN

Most of the 2400 baud modems on the market today use internal or 'soft set' dip switches. They require that you configure them using a communications program in terminel mode. With your modem turned on, boot your terminel progrem end enter terminal mode. Make sure you are set to ASCII trensletion, Half Duplex end set to the 2400 beud. Key the following commends terminated by a return. The modem should respond with the message 'DK'.

- resets the modem to factory settings AT&F

AT&C1 - turn the carrier detect pin on only when a remote carrier

is present

- modem will hang up and return to command mode when the AT&D3

DTR pin goes off ATSO=O - turn off auto-answer mode

- writes the current settings to non-volatile modem memory. AT&W The modem may be turned off or even unplugged end the

settings will not be destroyed.

Once these settings are made, you should never have to reset them.

* * * * A special note concerning the Atari SX212 modem * * * *

While PRO will run on the SX212 if you use an interface through the modem RS232 port and load the appropriate handler, the BBS will not run through the SIO port. There are no plans convert BBS Express! PRO to run through this modem port.

* * * * A special note to Avatex 1200 owners * * * *

The Avatex 1200 (non-HC) is a non-stendard, yat very popular modem. Unfortunetely, it does not understend most "Hayes Compatibla" commands. There is e special "WeitCall" module on your PRD disk thet wes written specifically for the Avatex 1200 modem. This file is nemed WTCALLAV.CMD. If you pien on running PRD on this modem, you should copy this command module to your PRD>CDMMAND> subdirectory under the name WAITCALL.CMD. This special module takes the place of the standard weitcall module.

User Editor And System Security

With BBS Express! PRO, you have COMPLETE control over almost every thing that a user can or can't perform. By now you may have noticed that everything under BBS Express! PRO is broken up into 32's. There are possible maximums of 32 massage bases, 32 file SIG areas and 32 command levels.

Additionally, each user's record has groups of 32 on/off flags for different functions. These possible functions are broken up in the following manner.

For the message bases, there are 32 individual flags for:

- o Can the user READ messages on this base?
- o Can the user POST massages on this base?
 o Can the user EDIT *ANY* message on this base? (co-sysop function)
- o Can the user DELETE *ANY* message on this base? (co-sysop function)
- o Can the user PRINT *ANY* message on this base? (co-sysop function)

For the file area, there are 32 individual flags for:

- o Can the user ACCES9 this SIG?
- o Can the user EDIT DESCRIPTIONS on this SIG? (co-sysop function) o Can the user DELETE *ANY* file on this SIG? (co-sysop function)
- For the command security, there are also 32 individual flags to signify whether a user may execute that level of a command.

As an axample, let's assume that we have a user named John Doa that has the following security level flags:

COMMAND										1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	3	3	3
COLILIANDE	1	2	3	4	5	6	7	8	9	ō	ĩ	Ş	Ĵ	ų	5	6	7	8	9	ō	1	2	3	4	S	6	7	8	9	0	1	2
Commands	Y	Y					•					•		•	•	•	•	•	٠	٠	٠	•	•	•	•	•	•	•	•	•	•	•
M9G BA9ES	3	2	3	4	s	6	7	8	9	1 0	1	1	1 3	1	1 5	1 6	1 7	1 8	1 9	0 S	2	5	2 3	2	2	6 5	2 7	8	9	3 0	3	5
Read?	γ	Y	Y	Y			Y		Y						Y																	Y
Post?	Y	Υ					Y					٠			Y	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	
Edit?	Υ	Υ												٠				•		٠	•	•	•	•	•	•	•	•	•	•	•	•
Delete?	٧	Υ													Y				٠	•	•		•	٠	•	•	٠	٠	٠	•	•	•
Print?	Y	Y	•	•		•	•	•	•		•	•	•	•	Y	•	٠	•	٠	•	٠	•	٠	•	•	•	•	•	•	•	•	٠
FILE 91G	9	2	3	4	5	6	7	8	9	1	1	1	1 3	1	1 5	1	1	1	1 9	2	2	5	2	2	2	6	2 7	8	9	3 0	3 1	3
Access?	v	v	v	v											v						_											
Edt Desci	7.														Y					•	•		•	•	•	•	•	•	•	•	•	•
Dalete?		·																	•		•				•	•	•	•	•	•	٠	•

Now... What exectiy can John do? Weli, es far as commend ieveis, he can execute levei 1 and 2 commends. Remember, commend levels for each Individual commend are kept in your SYSDATA.DAT file, and can be changed by using the SYSEDIT program. This is probably the right time to explain the importance of NOT giving people 'Sysop Access'.First, always keep the security level of the 'Sysop Commend Mode' (in your SYSDATA file) at level 32. Next, NEVER give any of your users level 32 command access unless you ere perfectly sure of what you ere doing. Why? Weli, the reesons are simple. A terribly upset level 32 Sysop could wipe out your ENTIRE herd drive in a matter of minutes. The 'Oos Sheil' of BBS Express! PRO is about as powerful as SparteDOS itself. From within the Dos Shell, it is possible to delete every user in your useriog, delete any file on any of your drives, delete eny subdirectory, etc.

As for the message beses on our BBS, John can do the following. He cen cen READ messages on beses 1, 2, 3, 4, 7, 9, 15 end E-meil (#32) (if a User cen not read messages on e bese, they will be greeted with en 'Invalid Security' if they try to enter thet bese). John cen POST (write) messages on message beses 1, 2, 7, 15 and E-mail. Thus, it's possible (and sometlmes very convenient) to ellow a user to read messages on e message bese without allowing them to write messages or reply to existing messages. This is sometimes the perfect set-up for 'NEW' users.

Not long ego, John came to us with a request. You see, John is an ST user, and he esked us if we would edd a new message base and file SIG area devoted to ST users. Our repiy? Well, as any good Sysop would do, we seld 'Sure, John..es long as YOU volunteer to maintain it! You will have to police the message bases for any vulgar messages and edit any file descriptions that you think can be improved'.

Well, John egreed to be Co-Sysop of the ST areas. So, we set up a new message base and new file SIG, both as #15. We then updated John's security levels (which are shown above). If you look at John's message base flags under base 15, you will see that he can do just about everything that is possible on a message base. He can read, post, delete, and print messages (in case he wents you to see one). But he can't adit messages. While we like John, we don't went him aditing other people's messages and possibly changing something that is said (this is probably unrealistic, but used mostly for demonstration purposes).

In the file SIG's. John cen only access file eress 1, 2, 3, 4 end 15. Once egein, he has much more freedom in the #15 file eres. There, he can elso edit any file description. He does not have the ability to delete any file on that SIG, as we would prefer to do that on our own.

Now that you understand how the security levels control each user's actions, we can discuss two VERY important 'user records' in your usering file. These records are referred to as the NEW USER RECORD and the VISITOR RECORD. These records are just like any other usering date record, except that they are solely for your use, and no user can everlag on with them.

Their importance is that they control what happens when a NEW user logs onto your board (either as a permanent user or a visitor). Here is what BBS Express! PRO does: when a user logs onto your board as NEW, Express! will ask them if they want a permanent password. If they respond with 'Yes', the NEW USER RECORD contents will be copied into their user record. If they respond 'No', then the VISITOR RECORD contents will be copied into their user record area. So, these records become the base that their records are built upon.

Not every field in the NEW USER end VISITOR records are important. For example, eny date that the user is prompted for (such as handle, name, address, etc) will overwrite what was in the new user/visitor record. The most important fields in the new/visitor records are the security levels and the time limits. Here is a list of the fields that you SHOULD updete in your new user and visitor records:

Time limit per cell Time limit per day Download retio

Commend Security Level Message Bese Security Level File SIG Security Level

Now let's look at the various functions in the user editor. The user editor cen be accessed from either the main menu (if you heve it defined in your mein commend teble) or from the Dos Sheil by typing UEDITOR from the Dos Shell's commend prompt or from the "Weiting For Cali" screen.

This is whet you see when the UEDITOR first loads:

Edit Which User?

(U) by User number (O) Online user (X) by Xandle (F) First new (R) by Reel neme (A) Add new user

[V] Visitor rec [1-7] Edit mesk
[N] New User rec [X] Exit

Your choics:

If you edit a user by one of the above options, that user record is read into memory end the following menu is displayed to you:

Editing: SYSOP (#10)

Status: Active/Velideted/LOCKED

Edit What?

(I) Textuel data (L) Lock user
(U) Usege data (O) Delete user

[C] Commend sec. [1-7] Apply mask

[M] Messege sec. [X] Exit

[F] File sec.

Your choice:

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If you select option T to edit textual data you will be presented with the following:

Editing: SYSOP (#10)

Status: Active/Validated/LOCKEO

Handle: SY50P

[B] Real Name: Keith Ledbetter [C] Address: 1234 Any Street [O] City: Midlothian, VA [E] Zip Code: 23113

CF3 [G]

Country: USA Phone: 379-4156 Computer: Atari (all) CHJ

Age: 30 [1] Password: atari [J]

A-J, OK, or LIST:

you select option U to edit usage data you will be presented with the Following:

Editing: 5Y50P (#10)

Status: Active/Validated/LOCKEO

[A] Time/call : 255 [B] Time/day : 255 [C] Mins today: 1

[D] Cownloads : O (E) Uploads : 0 [F] OL ratio : 255:1

[G] Last read : 1 [H] Msg posted: 0 [I] Email sent: O

[J] # of calls: 1 [K] Last call : Mon 18-Apr-88

A-K, OK, or LIST:

If you select option C to edit command levels you will be presented with the following:

Editing: SYSOP (#10)

Status: Active/Validated/LOCKED

Which command levels can this user execute?

(Y, N, or Return)

2 5 ---5---0---5---0---

Now: กกกกกกกกกกกกกกกกกกกกกกกกกกกกกก New:

If you select option M to edit message base security data you will be presented with the following:

Editing: SYSOP (#10)

Status: Active/Validated/LOCKED

What message base actions can this user perform?

- V) Kg որդորդողութուրդուրդուրդողութուրդ
- 83 мс Պոնդորդորդորդորդորդորդորդորդո
- C3 Eq որդումումումումումումումումումումումումում
- D3 De ընդներերերերերերերերերերերերերեր EJ Pr դրարարարարարարարարարարարարարարարա

A-E. OK. or LIST:

If you select option F to edit file SIG security data you will be presented with the following:

Editing: SYSOP (#10)

Status: Active/Validated/LOCKED

What file SIG actions can this user perform?

- 83 Ed ընդիրորդորդորդորդորդորդորդորդո
- C3 De ընդորդուրանորդությունում արդական հերա

A-C. DK, or LIST:

Message Bases

The message bases are accessible through either the = command to go to any individual message base or through the G command to perform a Gulckscan of any new messages on all the bases since the user's last call.

The command prompt in the message base processor contains 4 pieces of information. Here are a few sample message base prompts.

(1\50+) General: (50\50+) General: (Q\1\50) General:

The first perameter specifies either the read direction that you are currently in ('+' forward or '-' backward) or 'O' to signify that you are in QuickScan mode. The next parameter specifies the current message number within the message base that you are on. This is the message number that any of the base commands will act upon. The <Return> key always takes you to the next message number. The next parameter specifies the number of messages currently ective in this message base. The last perameter specifies the name of the message base you are currently in.

Access to a message base is determined by the user's message base security flags. If the READ flag is set for a base, they can read messages on that base. If the POST flag is set, they can also post messages on that base. A user can always edit or delete a massage that they have posted, but would require the appropriate security flag be turned on to perform those functions on a message written by someone also.

Printing a massage to the local printer requires that the PRINT security flag for that massage base be set ON. This option is available for use by using the H key in the massage base processor. This function does not appear on the manu.

Should the need arise from time to time, the sysop mey change the name of the message base by using the Z key. You will then be prompted for a new message base name. This option is only functional if the command level 32 security flag is turned on.

Download File Sigs

Each of the possible 32 download file sig areas is accessible to the user if their file sig security bit has been turned on by the sysop. If a user can get into the file erea, then they will be able to see ALL files in that area. The security is at the FILE AREA level. You either can or can't get to the area. If you can, you can see everything.

Listed below are the 7 functions that can be performed while at the file area command prompt.

[B] Browse flles with descriptions [C] Catelog files, 15 per page [N] New flles since your last call [U] Upload e new flle [/] Go to the next flle area

[=] Go to another file area
[X] Exit to the main menu

Option [B] Browse files with descriptions

If the user selects option B, they will be presented with one file at a time for viewing. Like this:

FILENAME COM 5200 1-31-87 2:09p

this is the description for filename.com

[D]ownload [R]ead [E]dit Desc [A]gain [C]ontinue [T]reshcen [Q]ult

The user may select any of these options, except E and T. These two options will only function if the user's security bit for editing descriptions and deleting files for this file sig has been turned on.

If the user selects the download option, they will be prompted with:

S)tandard C)RC Xmodem or Y)modem?
Once the user makes e download protocal selection, the file transfer begins.

Option [C] Catalog files, 15 per page

If the user selects option C, they will be presented with up to 15 files at a time for viewing. Like this:

Size Dete Filename 1-31-87 [A] FILE1 COM 5200 (B) FILE2 COM 5300 1-31-87 (C) FILE3 COM 5400 1-31-87 COM 5500 1-31-87 CD3 FILE4

[D]ownload [R]ead [Q]uit [C]ont:

If the user selects the download option, they will be prompted with:

Download which file (A-D)?

The user makes their file selection for downloading by letter and will be prompted again with:

S)tandard C)RC Xmodem or Y)modem?
Once the user makes a download protocal selection, the file transfer begins.

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New Files Validation

When a user uploads a file to your system, it is aiways sent to the PRO>UPLOAD> subdirectory. The file remains there, inaccessible to the user, until you validate these files.

To vaiidate new uploads, go into the Oos Shell and axecute the command module NEWFILES. NEWFILES will scan the upload directory and present you with each uploaded file one at a time like this:

FILENAME COM S200 1-31-87 2:09p

this is the description for filename.com

[V]alidate [R]ead File [E]dit Oesc [D]elete [N]ext File [C]hange Name [Q]uit

[Function]=>

Validate Option - will allow you to validate a file. You will than be prompted with: Move to which file area (O-List)?

You may enter a O to see a list of your download file areas or specify a file area to move the uploaded file. The NEWFILES module will scan the file area you specified, looking for an available subdirectory to move the file. It will start looking in the FOOl subdirectory. If there aren't 127 flles in that subdirectory, the file will be moved there, If full, NEWFILES will continue looking thru FOO2, FOO3 etc. until it finds a subdirectory with room to move the file. Once an available subdirectory is located, the file and it's description is copied into the subdirectory. The original file and description is deleted from the upload subdirectory. The next upload file is displayed and the process repeats itself until all the files in the upload directory have been presented. Once all uploads have been displayed, you are returned to the Oos Shell command prompt.

Read File Option - will display the file to the screen (and modem if logged on remotely) and then redisplay the file entry.

Edit Desc Option - will allow you to edit the current file description or create a new one if none exists.

Delete Option - will allow you to delete the file without validating it. Both the filename and file description will be deleted.

Next File Option - will allow you to continue to the next upload file without disturbing the current file presented.

Change Name Option - will allow you to rename the file before validating it. Both the fllename and file description are renamed.

Guit Option - will allow you to abort new files validation prior to viewing all new uploads.

The Dos Shell

The Dos Shell is an environment where board maintenance and most of the major SpartaDos functions are performed. The board comes configured to you with this function accessible from the command prompt by simply pressing the \$. From the "Waiting For Call" screen press option 8. There are currently over \$35 commands eveilable in the Dos Shell. A help menu is available while in the Dos Shell. Press ?. As new commands became available, it's a simple matter to copy the command into the PRO>COMMAND> subdirectory. The command is automatically available to you from the Dos Shell. You can add commands (.CMD files) to the commend subdirectory up to the subdirectory limit of 127. The best way to get a feel for what the Dos Shell can do is to use it once you have the board running.

The commands function as they would from SpertaDos, with a few naw ones, like COUNT and SHUTDOWN. COUNT simply counts the files and subdirectories in the current path and displays the statistics back to you. (Hendy for knowing if a subdirectory is getting close to filling up.) SHUTDOWN, if executed, will affectively lock the BBS program and will keep it from responding to incoming cells. It does not turn the power off or return the system to the DOS prompt, but rether disables the BBS from processing incoming calls until a key is hit from the local keyboard. Once you have shutdown the system remotely, you cannot re-enable it remotely. That can only be done from the local keyboard.

A sefety feature of the Dos Shell is if you enter it ioceity white a user is online and allow the user to see what you are doing, they will not be able to execute any commands because the Shell will not accept a return from the modem. They would be able to key in commands but when they hit return, the Shell would tell them that commands can only be executed locally. It allows them to key in a command white you locally execute a return for them. You can temporarily set them up with command level 32 to allow them to perform functions in the Shell. Don't forget to turn their command level 32 off after the call or they could enter the Shell on their next call and perform functions unattended. This feature was designed to stop a user from attempting to send a DELETE *.*

mecro across the modem before you could react to it. This only occurs if the Dos Shell was invoked locally. If you or a co-sysop cell in and invoke the Dos Shell remotely, all functions are anabled remotely as if you were at the local keyboard.

The Dos Shell's "command line parser" is extremely inteiligent. For example, here are verious ways you could enter the same commend:

COPY D1:>PRO>COMMANDS>*.* D2:>PRO>COMMANDS>*.*
COPY D1:>PRO>COM*>*.* D2:>PRO>COMMANDS>
COPY D1:>PRO>COMMANDS> D2:>PRO>COM*>

BBS Express! Professional Dos Shell Menu Orion Micro Systams (1988)

[] Denotas Optional Parameter

Directory Commands Dx: - Change Drive Dir [Dx:] - Long Dir. - Short Dir. Dirs [Dx:] PDir [Dx:] - Print Long Dir - Print Short Dir PDirs [Dx:] Credir Path - Craata Dir. Deldir Path - Delate Dir. CMD - Change Dir. Path - Count Filas Count [Path]

File Commands

Erasa Dx:Fn - Delete Fila Deleta Dx:Fn - Delate File Raname Dx:Fn - Ranama Fila Tupe Dx:Fn - View Fila Viaw Dx:Fn - Viaw File Src Dast - Copy Fila Copy Copy/N Src Dest - Copy File

(auto overwrita axisting file)

Print Dx:Fn - Print Fila Lock Dx:Fn - Lock Fila UnLock Dx:Fn - Unlock File

Disk Commands

ChkDsk [Dx:] - Disk Statistics - Protect Disk Protect Dx: - Unprotect Disk Unprotect Dx:

Maint. Commands

Ueditor. - Usar Editor Editfile [Dx:Fn]- File Editor

Nawfilas - Validate Uploads Viawavnt - Viaw Event Status ULPrint - Print ULog Utility ULBackup - BackUp Usarlog

Time Commands

Settima - Sat Tima - Sat Data Satdate - Display Time - Display Data Showtima Showdate

Misc.Commands

Chat [Dn/Dff] - Turn Chat On/Dff

Or Display Current Setting

ShutDown - Daactivate BBS Help or ? - Help Manu Exit or X - Exit Sysop Mode

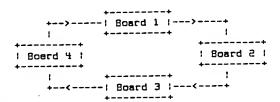
NOTE: From the DDS shell, any external command may be ran by simply keying in its name (ie: FILESTAT or UEDITOR).

ExpressNet Networking

The ExpressNEI networking feature of PRO is an automatic message networking facility for exchanging messages with another BBS Express! PRO system. This can be a second board you run, or a PRO board across town or ecross the country.

Operationally (from the sysop's point of view) it is a very simple process.

Hera is a pictorial of a sample network setup.



As you can see, this sample network contains 4 boards. The arrows show the direction the messages would flow. The key thing to ramamber when networking is 'the board initiating the call receives the messages'. In order to echieve this flow, board 2 would call board 1 to receive new messages. Board 3 calls board 2. Board 4 calls board 3. And to complete the loop, board 1 calls board 4.

In a 2 board network, board 1 would call board 2 to receive messages and then board 2 would call board 1 to receive massages. This was done this way, so that 1 board would not have to bear all the cost of long distance charges. After all, why should you pay the LD costs for someone else to get messages to post on their board. You make the call, you get the messages, simple as that!

Networking with enother PRO board is not something that 'just happens'. You and the sysop you will be networking with must both agrae on the bases you want trensferred and set up each side accordingly. You must set up a user id for the other sysop's use when calling your board es a network caller, and he must set one up for you to use when you call his board thru ExpressNET. Once you have this information, you are reedy to set up the parameters necessary to network with the other board.

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There ere 8 perts to the ExpressNET subsystem. They are:

ECHONET.DAT - contains the mode list of boards to build outgoing message packets. This file can be editted with eny word processor. It contains one line for each board entry and looks like

> . 1

25 PRO Support Boerd 1 1 Comments (Optional)

1 The nodes user number 1

The node number of board for which you are building the message packet

Each of these fields are separeted by 1 space.

NETEDIT.DAT - contains the network node list of boards that you are calling to receive message packets.

INCOMING.DAT - this is the data file which contains the incoming message packet conteining messages that will be posted on your board by NETUPDI. When NETUPDI posts the messages to your bases, it automatically deletes this detaset.

- edits the network node list NETEDIT.CMD

- preps the outgoing network message packet for NETPREP. CMD another node

- performs the outgoing call to connect to NETCALL. CMD another BBS

- processes the incoming network message packet NETUPDT. CMD you received from another system

NETHOST.CMD - processes incoming natwork cells

Let's discuss each .CMD command in deteil.

NETEDIT.CMD - this module runs from the Dos Shell. It allows you to enter up to 50 different nodes you wish to network with (ie receive incoming messages). This is the only module that you will run outside of the event scheduler. From the Dos Shell, run the progrem by typing NETEDIT. The following screen will appear:

[ExpressNet OutCall Maintenance]
ExpressNet Entry #1

[1] Beud Rate..... 300

[2] Phone Number:

[3] Incoming Beses

[4] Last Good Cell.. 00/00/00

(S) Mex Retries.... 10

[6] Num Retries.... 0 [7] User Number.... 0

[8] User Pword.....

[#]To Edit [N]ext [D]elete [D]uit

[Function]=>

- # enter the number of the parameter you want to change. You will be prompted as follows:
- Function 1 $$\operatorname{Toggles}$$ the baud rate and radisplays the screen
- Function 2 New Phone Number [Max 43 Cher.]
- Function 3

Edit Which Bese Number? => 20
Enter the bese you went to change. This represents the message base number you will be receiving on the other system.

New Bese Number? => 05
This is the bese number on your system where the messages from the ebove option will be posted. Using the numbers in the exemple, 20 end 05, this transletes to 'I want to receive base 20 on this system and I want the messages posted on my board in base 5'.

Function 5
New Mex Retries [Mex 255]=> 100
The maximum number of times to retry connecting to the board node before giving up.

Function 6
Set Num Retries => 30
The number of retries before going on to next node entry.

Function 7

New User Number ->

This is the user number on the other system that you use to logon as a network cailer.

Function 8

New User Password [Max 15 Char.]

This is the password on the other system that you use to iogon as a network caller.

[N]ext - takes you to the next node entry

[D]eiete - wiii deiete and reset the current displayed node entry

[Q]uit - returns you to the Dos Shell. If any editting was performed while NETEOIT ran, the changes are saved back to NETEDIT.OAT before returning control to Dos Shell.

NETPREP.CMD - this module runs from the event scheduler.

NETPREP reads the ECHONET.DAT file and builds the "message packets" for each of the node numbers that you have specified as being able to receive messages from your board. The NETPREP command should be piaced in the event scheduler to be run once a day. NETPREP simply reads the ECHONET.OAT file and creates a packet (or file) for each node in the ECHONET file. The "user number" specified in the ECHONET.DAT file is actually used to read the userlog record so that NETPREP can determine which messages are "new" for each node. The user record will be updated and rewritten after NETPREP runs. The message packet for each node is placed in the PRONNET subdirectory using the following data set naming convention:

X-nn.OAT

This number wiii be the NOOE number of the packet receiver. So, if this packet was built for node number 1, the dataset name would be X-1.Oat. The node number is derived from the first parameter on each line of the ECHONET.OAT file.

NETCALL.CMD - this module runs from the event scheduler. When this event runs, it reads the NETEOIT.OAT file and starts calling each board in the list until it connects with the board or has tried to call the maximum retries specified. Once connected, the boards handshake and start the message packet transfer if a packet exists. Once the packet is received, the connection is terminated and the receiving board passes control to the NETUPOT module to process the message packet which has been saved as INCOMING.OAT in the network subdirectory.

NETUPDI.CMD - this module is the opposite of NETPREP; it applies new packets that you have received to your message bases. NETUPDI is invoked automatically by the NETCALL.CMD after each message packet is downloaded from each board that you are calling. Once the packet has been processed, INCDMING.DAT is deleted and control is returned to NETCALL to continue the calling out process if additional boards still need to be called.

Steps Required To ** RECEIVE ** network message packets:

- Run NETEDIT.CMD from the Dos Shell end add the node info. Remember, you must have a velid logon ID and pessword to the board thet you will be receiving these messages from.
- 2. Add NETCALL.CMO as an event to the Event Scheduler. Once netcall has connected to the board and received the message packet, it will hang up and run the NETUPOT module to process the packet before continuing with the next entry in in the list. Once all the entries have been processed, control is returned to the weiting for cell module.

Steps Required To ** SEND ** network message packets:

- Add the node entry information to the ECHONET.DAT file for the node that will be calling your board to receive messages so the message packet for thet node will be built each day.
- You must add a new userlog record for the node that will be calling your board. You must tell the sysop of the calling board both his user number and password.
 - NOTE: Even if the ayaop whose board is going to cell your board already has a user record on your board, you MUST create a new user record for his BBS.

After creeting this new user record, you must edit the "message base read" security levels for this new record. NETPREP will not echo messages from a base that this node does not have "read access" to. In other words, you can set up a node to only be able to receive messages from bases 1, 3, 7 and 9.

3. Add NETPREP.CMD as an event to the Event Scheduler if it is not currently in the event scheduler. NETPREP's job is to build the message packet for each node you will be networking will. When setting up the scheduler, make sure that you have scheduled this commend to run before you expect the first incoming network call. If a network call came in and this function had not run, no packet would be waiting for that node.

It is perfectly acceptable to run the NETPREP every day to build message packets for your networking node's, but only have the nodes call in for messages every other day or even once a week. If NETPREP runs and determines that a dataset already exists for a node, it simply appends the additional messages to the packet. Once the node calls in to receive a waiting message packet, the packet will be deleted automatically upon a successful transfer with the receivar.

Should you desire, you may also run the NETPREP module manually from the Oos Shell. Why? Well, suppose you just started networking with a new node and wanted to get the initial transfer done to make sure everything was working correctly before setting it up in AUTO mode. You could manually run NETPREP, and have the receiver call in to receive (either automatically or using the XMODEM command from the Oos Shell) their message packet.

Event Scheduler

The Event Scheduler allows programs requiring no user input to process autometically at predetermined time intervals. The events themselves, as well as the time intervals, are set up using Option 8 in the SysEditor. PRO allows you to configure up to 30 of these events to run, besed on the type of event you set it up as. As an exemple, the system autometically configured the WHOMAINT event to run after every call. You will recall that WHOMAINT is the module that records the caller to the last SO callers log. On the master disk are 3 event modules excluding the NETWORK modules.

They are :

ULBACKUP.CMD - backs up your userlog

ULPURGE.CMD - deletes users besed on lastcall date

WHOMAINT.CMD - records user to the last SO callers log when they log off the system. This module was eutomatically set up for you when you initialized a new Sysdete.Dat file.

Each of these modules performs a function that does not require any input from the sysop to cerry out its function. While most of these commands could be executed from the Dos Shell by the sysop, the event scheduler removes the burden of remembering to perform these functions. Set them up and forget ebout them. Let the event scheduler keep track of when these modules should be run.

Normally, after each caller hangs up, as pert of the reset procedure, PRO will stert the event scheduler. The event scheduler will scan the event list, perform each function if it's time, and finelly return control back to PRO. If the board has been idle, Pro will automatically stert the event scheduler at the top of each hour, so events will not be missed due to this idle time period. This will occur frequently in the early morning hours when cellers are at a low point. This is ideally when you would want to schedule backups, userlog purge or packet processing, if you are using the networking facility.

The scheduling of events is normelly e 'set and forget' operation. This is the reeson we included the event scheduler in the Syseditor. There is currently no provision for modifying the event schedule while the board is running. To do this, you have to reset the board and run the SysEditor, then rerun the board. We will be writing an online scheduler so this will not be necessery. This module will be pleced on the support boards for you to download.

Library Text Menus

BBS Express! PRO incorporates a taxt menu structure which parmits the sysop to build selaction manus for viewing text files, executing commands or even building a text based adventure game.

The structure of these text menus is broken down into S sections.

They ere:

- 1. Commend Line
- 2. Prompt Line
- 3. User Dption Selections
- 4. END Statement S. Text Display

Here's e sample Text-Menu file:

Text-Menu Level 20 NDABDRT Return
View Which Help File? -->
MAIN D1:PRD>TEXT>MAINHELP.TXT
BASE D1:PRD>TEXT>BASEHELP.TXT
EDIT D1:PRD>TEXT>EDITHELP.TXT
C/R Exit
END
800

Boerd Help

[Main] Help On The Main Commands

[Base] Help Dn The Message Bese Commands [Edit] Help On The Message Editor Commands <Return> To Exit

Here's a sample Commend-Menu file:

Commend-Menu Level 2D Play Which Game? ==> Gemel Cards Game2 Dungeon Game3 Hangman Exit Exit C/R Score END 800

Online Games

[Gamel] Play Cards
[Game2] Play Dungeon
[Game3] Play Hangmen
[Exit] Return To Command Prompt

<Return> To Sae The ScoreBoard

Lat's discuss each section in detail.

[1] The Command Line - this line talls PRO how to handle this particular text menu. If more than one paremetar is used on this line, they should each be separated by a space. The parameters available for use on this line are:

COMMAND-MENU

this option lets PRO know that the selection options are executable (.ChO) files. PRO will attempt to loed and execute the file. Once the commend executes, the user is returned to the command prompt.

TEXT-MENU

this option lets PRO know that the selection options are text files. PRO will display the selected file to the user end on the local display acreen.

RETURN

this option tells PRO to return to this menu when finished displeying e file. Return only works with the text—menu parameter end is only one level deep. So If you set up a text menu with e return option, and it executes another menu with e return in it, the user would return to the second menu. The return to the first menu was broken by the second menu. Using the seme first menu, if e second menu is invoked that does not have a return on its command line, then the return would be to the first

LEVEL nn

this option tells PRO to only execute this menu if the user's security level is set ON. 'nn' is the command level required to execute this menu. If the user's sacurity does not permit tham to execute the menu, they would receive an 'Insufficent Authority' message and would exit back to the commend prompt.

QUIET nn

this option functions like the Level nn except that if the user does not have the security level required to execute the menu, they would be returned to the command prompt without receiving any message. This is useful if, let's say, you wented to elert club members to the next meeting deta, but didn't went non-club members to know the menu was ettempted.

NOABORT

this option tells PRO to Ignore eny abort key tha user may hit and continue displaying the file. This is useful if you went the user to read your system news EVERY time or heve paid advertisements that you don't want the user to be able to abort.

(2) The Prompt Line - this line allows you to set up the prompt that is displayed to the user after the menu displey text is presented to the user. This allows greater flexibility for requesting user input depending on the purpose of your menu. Some example prompts would be:

Enter Your Selection -->

[N]orth [S]outh [E]est [W]est Which Wey? =>

- [3] The User Option Selection this section of the menu consists of the actual flienemes for each of the selections aveilable in the menu. Each selection in the menu would have a line in this section to
 - Define the selection mesk AND
 - 2. the fileneme essociated with this selection

For instance, let's use our semple menu which is a menu containing user help text files for the board. In this section of the menu, we would have 4 entries:

MAIN 01:PRO>TEXT>MAINHELP. BASE 01:PRO>TEXT>BASEHELP.TXT EOIT 01:PRO>TEXT>EOITHELP.TXT C/R Exit

Looking at the first line, if the user keys the word MAIN, PRO wiii display the text file Oi:PRO>TEXT>MAINHELP.TXT. If the user keys EOIT, PRO will display the text file O1:PRO>TEXT>EOITHELP.TXT. The C/R is a special option which allows you to define the action which will be taken if the user hits the return key. In this case, we have defined the return to be EXIT, but it can be e text file or even enother menu. Some type of exit must elways be defined or the user would never be able to get out the the menu. In the semple menus ebove, we have shown you 2 weys to code in an exit. Either using the C/R as an exit or explicitly coding the word EXIT es en option.

When building a Text-Menu, the FULL pethneme must be specified including the drive, subdirectory end fileneme. If you are building a Commend-Menu, only the 8 cherecter filename is specified. PRO will always build the full pathname by adding the .CMD to the fileneme you specified end will elways go to the PRO>COMMANOS> subdirectory to find the file to execute.

You may eiso pass parameters to a command from a Command—Menu (if the command can take parameters). For instance:

Command-Menu Level 32
Downloed Which File? -->
Caii Xmodem S Ol:PRO>LOG>Celi.Log
ULog Xmodem S Ol:PRO>Userlog>Userlog.Rpt
Exit Exit
ENO
&OO

Oownload Boerd Reports Co-Sysop's Only

[Call] Oowniced Call Log [Ulog] Oownload Userlog Report [Exit] Exit This Menu

In the above exemple, the Xmodem command requires 2 paremeters be pessed to it. The first perameter 'S' tells xmodem to send a file and the second parameter is the filename to send.

[4] END - this paremeter terminates the structured menu information from the text display which foliows. Everything after this statement to the end of the menu file is displayed to the user. This ENO perameter MUST be present in the menu or the menu will not work correctly.

(5) Text Display - this is the portion of the menu which is displayed to the user. Veriable tags may be used in this section of the menu. In our semple, we used the &00 veriable teg to clear the screen before \sim displaying the menu to the user.

Main Menu Commands

Below are the commands available to the user at the main command prompt. These are the commends set up by default. You may add or delete commends as you wish. Refer to the section on the Syseditor for the proper procedure for adding main commands. Note that the Ushell function is provided only if you would like your users to sae what cen be performed in the Dos Sheii. The only real change a user could make using the User Dos Sheii would be to turn chat DFF end DN. Any other function which could do demage has been turned off. Should you decide that you don't want your users to see the DEMO, this function may be removed from the menu and main command list.

BBS Express! Professionai Mein Menu

Mein Menu						
(Upload Your Files Under [B]rowse!)						

• A ASCII/ATASCII ! B Browse Files						
* C Ceii Sysop D D/L Locator *						
* F Feedback Area G Goodbye (Dff) *						
* I System InfoNET! L Library Files *						
* N System News D Drdering Form *						
* P Paremeter Edit! R Read *E-Maii* *						
* 5 Send *E-Meii* ! U User Search *						
• W Last SO Cails ! Y Your Dwn Stats *						
* - GoTo Any Base ! * Msg Base List *						
• Q Quickscen! ! @ Edit scan list •						
* # Shell >Demo< !! SIG Statistics *						
• & - On-Line Upload Vaiidetor •						
* % - On-Line User Editor *						
• \$ - SysDp-Only DDS Shell						

Message Base Commands

The following is a list of commands available to the user when they are in a message bese.

```
<Return> reads the next message
 [A] Reed the current message again - [Q] Quit reading current thread
 (B) Set read direction to backward -[R] Reply to the current message
                                    ~ [S] See replies to current message
I [C] Continue keyword seerch
                                   [[T] See thread of current message
 [D] Delete the current message
                                    [U] Unlock the current message
 [E] Edit the current message
 [F] Set read direction to forward | [U] Verbose mode toggie (on/off)
 [G] Goto e certein message number | [X] Exit back to the mein menu
 [J] Goto a certain message number | [*] List of active message beses
                                    ![@] Add/remove base from scan list
[K] Search for a keyword
                                    - [+] Read ahead one messege
[L] Lock the current message
                                   ~>[-] Reed beck one message
[M] Message base statistics
~ [N] Position at first new message | [>] Read ahead one message
                                    ([<] Reed back one message
· [P] Post a new messege
```

If verbose is OFF, hitting 'A' will read the message

Two additional commands are evailable to the sysop:

[H] HardCopy Print [2] Change name of message base

(Page 4D)

Message Editor Commands

The following is a list of commands available to the user in the message editor. Each of these commands is preceaded by a $^{\prime\prime}$ in the first position of a line.

[G] Toggle grephics mode on / off (W) Toggle word wrap [I] Insert e new line (/) Clear the screen

File SIG Commands

The following is a list of commands evailable to the user when they are in a file sig area.

- [B] Browse files with descriptions [C] Cetelog files, 15 per page
- [N] New files since your last cell
- [U] Uploed e new file
- [/] Go to the next file eres
- [-] Go to enother file eres
- [X] Exit to the mein menu

Adding System Commands

System commends cen be added et eny time by simply copying the .CMD file into your commend subdirectory. By doing this, they are immediately available to the sysop from the Dos Shell. If it is a command file that will be used by your board users, you will need to define the command in the sysdete file by using the syseditor end editing the main commands. Refer to the section on the Syseditor for the proper procedure for adding main commends.

Starting The Board

Dk...now that we have everything configured, we're ready to run the board. But first, a checklist.

1. Subdirectories created 2. Sysdata.Dat configured (must be in path you boot the BBS from)

3. Userlog created

- 4. Message Bases created
- 5. File Sig directories created
- 6. Help files created and/or edited
- 7. Modem configured
- (manually or from the Startup.Bat)
- 8. TDLINE installed 9. RS232 installed (manually or from the Startup.Bat)
- BBSPREP installed (manually or from the Startup.Bat)

Dk, everything checks out... now we'll run the BBS.CDM program from the PRD> directory.

If this is the first time you have run the board, several things must be done before you're ready for the first caller. First, you naed to run the user editor (Option 6) so you can edit your ID (userID #10) in the userlog. Change the textual data to your liking and save the changes. Also edit the co-sysop user ID #11, even if you don't plan on having a co-sysop. The board treats ID's #10 and #11 differently then other ID's, so these must never be used by regular users.

User ID's 1 through 9 are reserved by the system. They are:

ID #1 is the 'Visitor record'

ID #2 is the 'New User record'

Id's 3 thru 9 are sysop predefined validation masks

Now, you will need to edit the Visitor record and the New User record to set up the following:

> time limits download ratios command security levels message base security levels file sig security levels

When a new user calls and asks for a permanent ID, these are the initial values that will be transferred to their ID until you validate them. The rest of the data is obtained from the user when they apply for an ID.

We recommend that VISITORS not be allowed to post messages. Just let them read messages and look around.

The ID's 3 thru 9 are special validation mask ID's (1-7) that the sysop can set up to aid in the validation of new users. Many of you currently running boards tend to validate new users in one of a handful of ways, depending on the user information supplied. You can predefine up to 7 of these validation masks so that when you are validating a new user, you can apply one of these validation masks to that user's ID. By doing this, all the command, message and file security levels along with the time limits and download ratio set in that particular validation mask are transposed to the user record that you are currently editing.

Rether then individuelly setting all the security flags by hand, you can APPLY a generic security level for this user by pressing just one key.

You will notice when the BBS sterts, the 6 line Stetus Window et the top of the screen. This is the normal configuration. From time to time you may went or need to see more of the screen without ell the status lines. By holding down the SHIFT CONTROL keys and pressing 'l', '2', '3' or '4', you can change the number of lines used for the status window.

SHIFT CONTROL 1 - displeys the normal 6 line status window

SHIFT CONTROL 2 - displeys e 4 line stetus window SHIFT CONTROL 3 - displeys e 2 line status window

SHIFT CONTROL 4 - no stetus window

Sysop Options From Waiting For Call

There ere 8 options evailable to the sysop while the board is weiting for a cell. They ere:

> 6 User Editor 1 Quick Entry #1 7 Chet Mode 2 Quick Entry #2 8 DOS Shell 3 Logon By Hendle

4 Logon By Name

5 Normel Logon

- 1. Quick Entry #1 this logon option ellows the sysop (User #10) to quick logon directly to the commend prompt. Logon using this option sets the lest celler to 'A Visitor'.
- 2. Quick Entry #2 this logon option ellows a co-sysop (user #11) to quick logon directly to the commend prompt. Logon using this option sets the lest celler to 'A Visitor'.
- 3. Logon By Handle this logon option ellows logon directly to the commend prompt as a user after supplying the users handie. Logon using this option updates the lest caller.
- 4. Logon By Name this logon option eilows iogon directly to the commend prompt as a user after supplying the users real name. Logon using this option updates the lest ceiler.
- 5. Normal Logon this option allows logon as if you were connected remotely. All the normal logon files are displayed and all prompts for logon deta ere mede end velideted.
- 6. User Editor this option ellows you to eccess the user editor without the need to logon to the system.
- 7. Chat Mode this option toggles the chat mode ON end OFF. Chet mode status is visible in the BBS status window.
- 8. DOS Shell this option ellows you to eccess the DOS Sheii without the need to logon to the system.

Entering Chat Mode

while a caller is online, you may enter chat mode by pressing the escape key once. You are then pleced in a direct chat mode with the user. Typing from the local keyboard will immediately be output to the modem as you type. A unique feature of PRO's chat mode is if you press the escape key a second time, a type ahead buffer will appear in the bottom 2 status lines. You can now type a message to the user while they ere typing to you, but your message will not be sent out until you press the enter key. Once you press the enter key, you are immediately back in real time chat mode. Pressing escape again will turn on the type ahead buffer again for your next message. This feature can came in handy if you are in chat mode with a slow typist and you know the answer you want to send before the celler has even finished asking the question. Just press escape again, key your response and wait for them to finish typing before pressing the enter key to send your response. Your users will be emazed at how fast a typist you ere!

To EXIT chat mode, simply press ESCape twice.

The System Clock

The BBS system clock is actuelly using the SpartaDOS software clock which is normelly set manually or autometically set if you have the R-Time 8 clock cartridge. In either case, BBS Express! PRO requires that TDLINE.COM handler be installed before running the BBS. An error will occur end PRO will refuse to load if the TDLINE hendler is not installed.

The Call Log

The system call log is stored in the PRO>LOG> subdirectory using the name CALL.LOG. Each caller to the BBS is logged into this detaset. Call.Log does not have to be predefined. If PRO can not find it, the dateset will automatically be created.

The Call.Log may be disabled if you choose, by setting the LOG drive number to 0 using the SysEditor.

User Editable Parameters

When a user presses the P key to edit their user settable parameters, they ere presented with the following:

[A] Reel Neme: John Doe

Handle: JD EB)

Address: 1234 Any Street City: Midlothien, VA LC3 כמם

[E] Zip Code: 23113 [F] Country: USA

[G] Phone: 379-4156 [H] Computer: Ateri (ell)

Age: 30 CIJ

[J] Pessword: steri [K] U. Width: 40

[L] Auto-reed Emell et logon: No

[M] Cleer screen after msg : Yes

[N] "Hotkey" 1-key commands : Yes

[D] Non-stop quickscen mode : No

[P] Messege view page langth: 0

Enter letter to change, OK when done, or <return> to list:

Any of these settings may be set by the user (except changing their neme/hendle) and are stored in the users record. PRO uses these settings when making decisions on how to present the date to the user.

Logging A User Off The System

At any time e celler is online, you may heng them up instantly by pressing the START SELECT OPTION keys simulteneously. This will terminate the cell end reset the board back to the weiting for cell screen.

Converting 850/1030 Express! Userlog To PRO

We had originally intended to provide a conversion program for owners of the 850/1030 original varsions of BBS Express! for converting their existing userlog to the PRO format. Helfwey through the code, we reelized that only the handle, password, city and state could be

converted to the new formet. This does not come close to the informetion thet is now stored with each userlog record. Therefore, we concluded that the sysop could spend weeks trying to hand key all the date required, assuming they had it in the first place. We scrapped the plan In the name of progress.

In the long run, your userlog will provide you with information and be more eccurete if you ask your users to log on NEW.

Printing And Purging The User Log

There are 2 .CMD modules available on the disk for the purpose of printing and purglng the userlog. They are: ULPRINT.CMD and ULPURGE.CMD

ULPRINT.CMD is a command modula that can only be run from the Dos Shail by typing ULPRINT. It has 4 options available:

- Print Userlog To Printer will print the useriog (4 users par page) to the printer.
- 2. Print Userlog To Disk File will write the useriog report to a disk file instead of the printer. You wili be prompted for a FULL filename at the time you execute this function. This can be useful for remote sysops, they can download the created file and copy it to their printer or for the sysop to print the userlog on enother system that has a printer connected. The output from this option is the same as in option I except it goes to a disk file rather than the printer.
- 3. Print Only New Users will print only the usars in that usaring who currently have a status of 'New User'. This can be useful for printing new users since the last time you validated users, BEFORE validating them. Output from this option is directed to the printer.
- 4. View Userlog Statistics will scan the userlog end display to the screen (locally and ramotaly) the current userlog statistics as follows:

Systam Rasarvad : X
Active Usars : XXXXX
Lockad Usars : XXXXX
Naw Usars : XXXXX
Delatad Usars : XXXXX
Total Usars : XXXXX

This can be useful for determining the status of your userlog and to see if new users have called since your last validation or if the userlog is approaching its maximum allocation.

ULPURGE.CMD is a command modula that can be run from the Dos Sheii by typing ULPURGE, or it may be set up as avant to be run by the Event Schedular.

Whan ULPURGE runs, it looks for a file cailed ULPURGE.DAT in the PRO>DATA> subdirectory. This file is a text file containing i line. On that line is a number between i and 365 which represents the number of days back from the current data to start purging.

Let's say you want to dalete usars who have not called your board in the lest 90 deys. Create the file called ULPURGE.DAT in the PRO>DATA> subdiractory. On the first line, key in 90, followed by a raturn, and save the file. Now when ULPURGE.CMD runs, it will read the ULPURGE.DAT and use 90 as its days to purge veiue. It will reed the useriog end mark eny user who has not called in the lest 90 days as deleted. ULPURGE (Page 16)

will bypass any user record you have locked regardless of the last call date, so locked users will never be dejeted.

The important thing to remember here is that once you establish your purge days, you never have to change. ULPURGE will always calculate the purge date based on the current date and your purge days criteria. While you can run this program as often as every cail, we suggest you use it as an event and set it up to run once a week.

Other Utility Programs

ULBACKUP.CMD is a command module that can be run from the Dos Sheil by typing ULBACKUP while in the Dos Sheil or it may be set up as event to be run by the Event Scheduler. When ULBACKUP runs, it looks for a file called ULBACKUP.DAT in the PRO>DATA> subdirectory. This file is e text file containing I line. On that line is the FULL filename to be used as the destination filename for backing up the userlog and is terminated by a return. We suggest you set up your filename to backup to the same directory as your userlog using the the name USERLOG.BAK. So, assuming your userlog is on drive 2, ULBACKUP.DAT would contain one line with the filename D2:PRO>USERLOG>USERLOG.BAK foilowed by a return. How often you run the ULBACKUP is a function of where you have your userlog located. If it's on the hard drive or a floppy drive, once a day or once a week is probably fine. If you run the userlog out of a ramdisk, you might consider setting ULBACKUP to run after every cail. Then if you lose power, you really haven't lost anything. When the power comes back on, recopy the userlog back to the ramdisk and you're back in business.

WHOMAINT.CMD is a command module that records the cailer to the last SO cailers log which users can view using the WHOCALL.CMD module. By default, this module was automatically set up when you configured your sysdata.dat file to be the first event to run and will always run after every call. To insure the accuracy of your lastcall data file, we suggest you run it like this unless you do not wish to use the last call function on the board, in which case this module may be removed from the event scheduler. WHOMAINT will not record the logon of user number 10 (Sysop) or user number 11 (Co-Sysop) when they logon either locally or remotely. This is so you or your co-sysop may enter your BBS without that users being aware of the fact. The actual data filename is LASTCALL.DAT and is stored in the DATA subdirectory. This file does not need to pre-exist. WHOMAINI will create a new file if it cant find one. Should you ever need or want to, LASTCALL.DAT may be deleted without eny ill effect. WHOMAINI will simply create a new one the next time it runs.

D.CMD is a command module which is an alternate to the Dos Sheil's internal DIR command. D will list the files 2 to a line instead of the usual 1 per line.

EDITFILE.CMD is a command module which is used to edit text files while the BBS is running. EditFile is capable of editing a 255 line text file of up to 80 columns. EditFile is run from the Dos Sheli by entering the module name. You may pess the filename as a parameter to EditFile or just be prompted for a filename by entering the module name.

VDEL.CMD is a command module which will sak for varification before deleting the file. It may be used an an elternate to the Dos Shall's internal ERASE and DELETE commands which do not ask for varification before deleting the file.

WHEREIS.CMD is a command module to be run from the Dos Shell which will locate a file or files based on the input filemask any where on the drive. For instance, keying a filemask D3:>*.ARC would locate all files on drive 3 with an extender of ARC regardless of which subdirectory they were in.

VIEWEVNT.CMD is a commend module to be run from the Dos Shell which will display the lest run status of the event scheduler. It will list each event end the lest date/time it was run with the a raturn code run status. A run status of O indicates the event ren successfully while a non zero raturn code indicates an error occured during execution. The error code will be a DOS raturn code. For exemple, a raturn code of 170 would indicate the event was looking for a file which it could not find.

UEXTEND.COM is a stand alone program to be used for extending your userlog. No matter how well you plan, the time may come when you run out of ID's in your userlog. UEXTEND will increase the current userlog by an edditional number of entries that you specify when running the program. This program modifies the original userlog, so only 1 drive is required to perform this operation. But, make sure you have a backup of the userlog before running this program. If something should happen like the drive fills up while the program is running, you can recover by copying your backup copy to the original userlog and try again. Run this program from the DOS prompt and follow the program prompts.

XMODEM.CMD is a command module evailable to the sysop for use directly in the Dos Shell or in Command Menus. The command syntex is:

Xmodem [S or R] Fileneme

S - tells PRO to SEND the file

R - tells PRO to RECEIVE the file

Fileneme - is the FULL pethneme of the file.

Where To Get Help

In the event you need help configuring your BBS or need a question enswered, you may call us voice at 804-794-9437 during evening hours (6 P.M. to 11:00 P.M. EST) or anytime during the weekend. Please be ready to give your serial number for varification before we can enswer any questions. We will be glad to help any of our customers with the BBS, but absolutely refuse to easist a pirate of our products.

While on the subject of pirating, we ask that you not give a copy of our software products to anyone. We realize that for the vest majority of you, we don't even have to ask and we appreciate that. But, if one of you gives a copy out to a friend, before you know it, it's on every pirate board in the country. We would like to continue supporting the Aterl B-bit market in the future, and not giving out the programs ensures we will be around for many years to came with more products.

In addition, you may call one of the following BBS systems for support:

BBS Express! PRO Support BBS 804-744-8897 3/12/24 24 hours Midnight Express BBS 804-379-4156 3/12/24 24 hours

Both these systems will have special message bases and file areas set eside for the exclusive user of registered owners. When calling these systems, leave your serial number in feedback to the sysop so they may validate you for these special areas. As upgrades occur and new modules are written, they will be placed on both these systems for you to download. It is up to you to check in periodically for upgrades or new modules. Both systems will have the same modules online, so it is not necessary to call both systems to get all the upgrades.

Transferring Ownership

We will transfer the ownership of your master disks to someone else if you decide to sell your copy. We need to be notified by you of this fect. If the new owner cells us for support (voice or 885), we will not be able to offer support until the original owner notifies us of the transfer. A call to either support board, leaving email to the sysop will be sufficient, or a letter to Orion Micro Systems notifying us of the transfer. Once we have received notification, the new owner will receive the same support as if they had purchased the program directly from us.